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APPLICATION N	O. F	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/713,384		11/14/2000	Murthy V. Simhambhatla	25141-0590	3452
24201	7590	01/22/2003			
		ON LEE & UTEC	EXAMINER		
6060 CEN	D HUGHES ITER DRIV		RAGONESE, ANDREA M		
TENTH FLOOR LOS ANGELES, CA 90045				ART UNIT	PAPER NUMBER
_ = = =	3, 0			3749	
			DATE MAILED: 01/22/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

		A and the section					
	Application No.	Applicant(s)					
Office Action Commons	09/713,384	SIMHAMBHATLA ET AL.					
Office Action Summary	Examiner	Art Unit					
	Andrea M. Ragonese	3749					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period to - Failure to reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may a reply be y within the statutory minimum of thirty (30) d will apply and will expire SIX (6) MONTHS from cause the application to become ABANDOI	timely filed lays will be considered timely. om the mailing date of this communication. NED (35 U.S.C. § 133).					
1) Responsive to communication(s) filed on 19 L	December 2002						
•	is action is non-final.						
3) Since this application is in condition for allows		prosecution as to the merits is					
closed in accordance with the practice under Disposition of Claims	Ex parte Quayle, 1935 C.D. 11	, 453 O.G. 213.					
4)⊠ Claim(s) <u>9-16 and 21</u> is/are pending in the application.							
4a) Of the above claim(s) <u>1-8,17-20,22 and 23</u> is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>9-16 and 21</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
9) The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12) The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreig	n priority under 35 U.S.C. § 119	∂(a)-(d) or (f).					
a) All b) Some * c) None of:							
1. Certified copies of the priority documen	ts have been received.						
2. Certified copies of the priority documents have been received in Application No							
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachment(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Inform	nary (PTO-413) Paper No(s) nal Patent Application (PTO-152)					

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DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to **claims 9-16** and **21** have been considered but are most in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in-
- (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effect under this subsection of a national application published under section 122(b) only if the international application designating the United States was published under Article 21(2)(a) of such treaty in the English language; or
- (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that a patent shall not be deemed filed in the United States for the purposes of this subsection based on the filing of an international application filed under the treaty defined in section 351(a).
- 3. Claim 9 is rejected under 35 U.S.C. 102(e) as being anticipated by Zhang et al. (US 2002/0103455). Regarding claim 9, Zhang et al. discloses a balloon catheter comprising a soft polymer blended and crosslinked with a multifunctional agent, so that the balloon exhibits compliant radial expansion to a desired working diameter within a first pressure range, and substantially less expansion about the first pressure range (paragraphs [0044]-[0045]).

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Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 10 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Zhang et al. (US 2002/0103455 A1) in view of Gilson et al. (US 2002/0062133 A1). Zhang et al. teaches a balloon catheter apparatus comprising all limitations recited in claims 10 and 15, with the exception of longitudinally extending stiffening zones circumferentially disposed on at least a section of the balloon. Gilson et al. teaches the use of a tubular body 72, as shown in Figure 29, comprising longitudinally extending stiffening zones 76 symmetrically spaced and circumferentially disposed on at least a section of the tubular body 72 for expanding with adjacent portions of tubular body 72 such that the tubular body 72 section expands to a substantially cylindrical configuration (paragraph [0228]). It would have been obvious to one having ordinary skill in the art at the time the invention was made to utilize stiffening zones in the balloon catheter of Zhang et al. because, as taught by Gilson et al., it is well-known in the art to utilize stiffening ribs in a tubular body in order to control axial growth of the balloon during inflation (paragraph [0233]).
- 6. Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over Zhang et al. (US 2002/0103455 A1) in view of Gilson et al. (US 2002/0062133 A1) and further in view of Engelson et al. (US 5,312,356). Zhang et al. in view of Gilson et al. teaches a

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balloon catheter apparatus comprising all limitations recited in **claim 11**, with the exception of longitudinally extending stiffening zones comprised of a polymeric material coextruded as an intermittent first layer on the outer most edge of the expanded balloon. Engelson et al. teaches the use of coextruding a surface coating of a polymeric material as an intermittent first layer on the outer most edge of a tubular body (column 11, lines 15-24). It would have been obvious to one having ordinary skill in the art at the time the invention was made to utilize a polymeric surface coating in the balloon catheter of Zhang et al. in view of Gilson et al. because, as taught by Engelson et al., it is well-known in the art to utilize polymeric material coatings on a tubular body in order to control physical characteristics, such as axial growth of the balloon during inflation (column 3, lines 50-57).

7. Claims 12 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Zhang et al. (US 2002/0103455 A1) in view of Gilson et al. (US 2002/0062133 A1) and further in view of Samson et al. (US 6,090,099). Zhang et al. in view of Gilson et al. teaches a balloon catheter apparatus comprising all limitations recited in claims 12 and 21, with the exception of longitudinally extending stiffening zones comprised of a cross-linked polymeric material. Samson et al. teaches the use of a coating of a cross-linked polymeric material as longitudinally extending stiffening zones (column 6, lines 23-31). It would have been obvious to one having ordinary skill in the art at the time the invention was made to utilize a cross-linked polymeric material surface coating in the balloon catheter of Zhang et al. in view of Gilson et al. because, as taught by Samson et al., it is well-known in the art to utilize cross-linked polymeric material coatings on a

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catheter in order to control physical characteristics, such as axial growth of the balloon during inflation, by increasing strength and allowing heat shrinking (column 6, lines 30-31).

Claims 13-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over 8. Zhang et al. (US 2002/0103455 A1) in view of Chen et al. (US 5,565,523). Zhang et al. teaches a balloon catheter apparatus comprising all limitations recited in claims 13-14, with the exception of at least one specific polymer with glass transition temperature of about 20° C to about 60° C selected from the group consisting of polyamide-ether block copolymer, polyether-ester block copolymer, polyester-ester block copolymer, polyesterurethane block copolymer, polyether-urethane block copolymer, polycarbonateurethane block copolymer, polyolefin, and polyolefin block copolymer. Chen et al. teaches the use of at least one of these polymers for use in making medical devices including catheters and balloons for dilatation catheters. It would have been obvious to one having ordinary skill in the art at the time the invention was made to utilize the specific polymers as the material used to make the balloon catheter of Weber et al. because, as taught by Chen et al., it is well-known in the art to utilize these such polymers since they exhibit a relatively low flexural or tensile modulus, a relatively high tensile strength and a relatively high elongation to break—material characteristics that are generally desirable in medical devices—in order to provide for controlled axial or radial expansion (column 4, lines 19-54).

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Conclusion

9. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Andrea M. Ragonese whose telephone number is (703)

306-4055. The examiner can normally be reached on Monday through Thursday from 7

am until 5:30 pm ET.

10. If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Ira S. Lazarus can be reached on (703) 308-1935. The fax phone numbers

for the organization where this application or proceeding is assigned are (703) 872-9302

for regular communications and (703) 872-9303 for After Final communications.

11. Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is (703) 308-

0861.

amr

January 15, 2003

ira S. Lazarus

Gmun 370